

Josh Tumath
Front-End Web Developer
Presentation Layer, Core Services

The world of **TODAY**



The world of







The principals of

TOMORROW







Flow layout

The default layout method

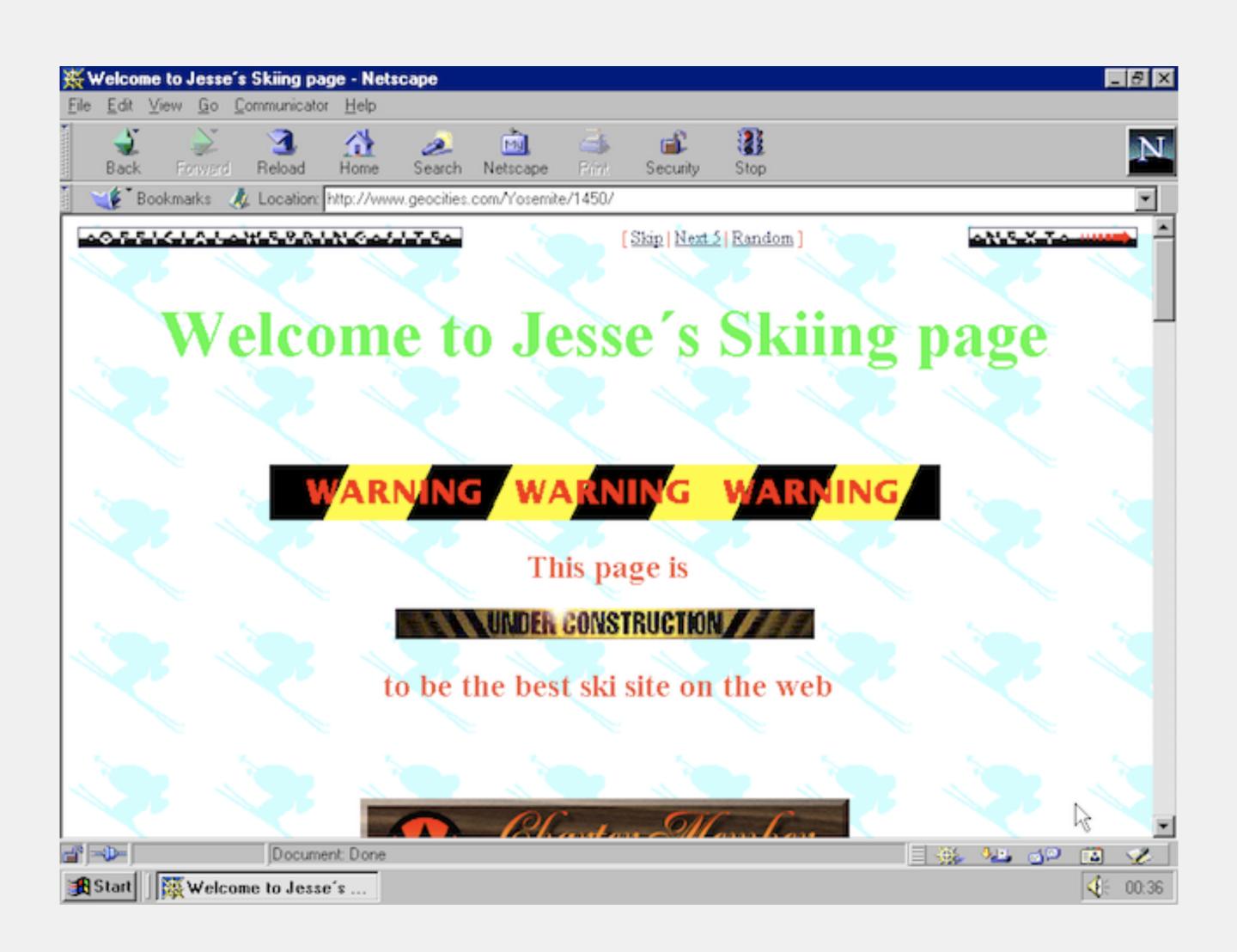


Table layout

Abusing the table element for layouts



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Mobile and desktop websites

m.bbc.co.uk for mobiles

bbc.co.uk for desktops

Fluid and fixed layouts

Cleverly misusing CSS property float: left and percentages or fixed width boxes



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306

A LIST apart
FOR PEOPLE WHO MAKE WEBSITES

MAY 25, 2010

Responsive Web Design by ETHAN MARCOTTE

Published in: CSS, Layout, User Interface Design | @ Discuss this article »



66 The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must "accept the ebb and flow of things."

John Allsopp, "A Dao of Web Design"

The English architect Christopher Wren once quipped that his chosen field "aims for Eternity," and there's something appealing about that formula: Unlike the web, which often feels like aiming for next week, architecture is a discipline very much defined by its permanence. A building's foundation defines its footprint, which defines its frame, which shapes the facade. Each phase of the architectural process is more immutable, more unchanging than the last. Creative decisions quite literally shape a physical space, defining the way in which people

Search ALA

include discussions

Topics

- * Code
- + Content
- * Culture
- + Design
- * Process
- * User Science

Snapshot

Learn how to use fluid grids, flexible images, and media queries to create elegant user experiences with responsive web design.

Ad via The Deck

JOB BOARD

Crispin Porter + Bogusky
is looking for a Experience
Designer.

More on the Job Board.

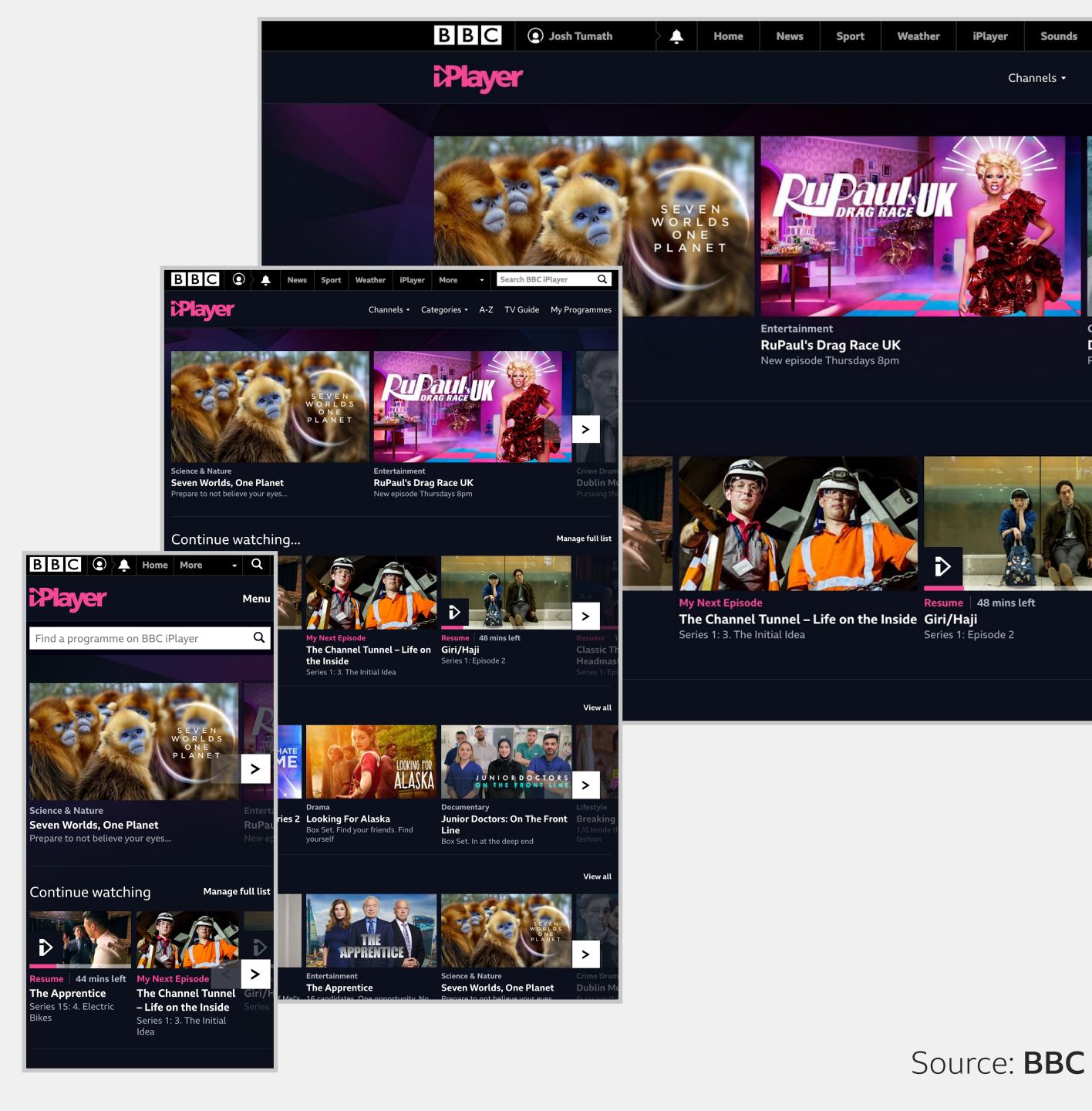
A Book Apart



Responsive layouts

The full power of CSS

Media Queries

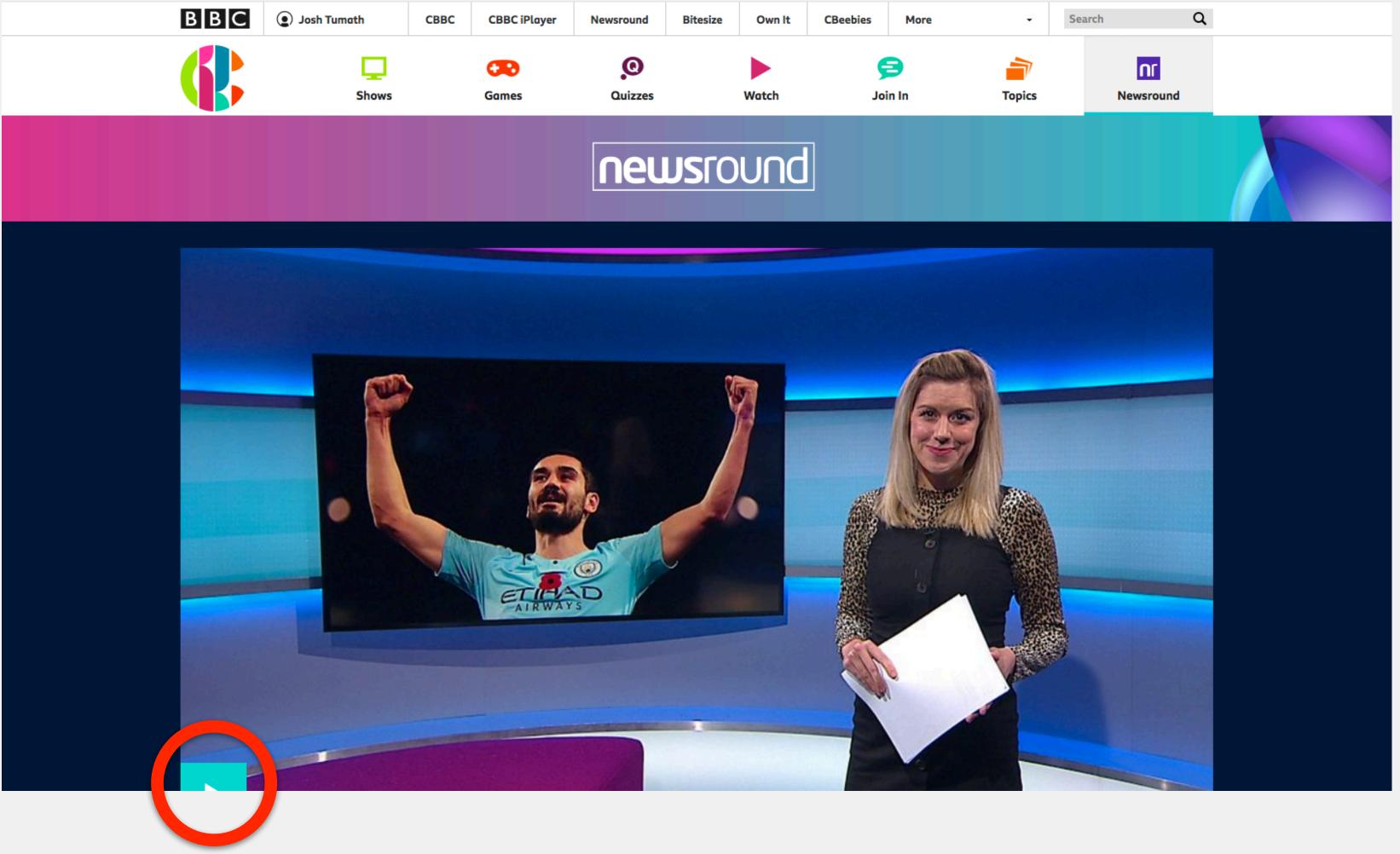


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The limitations of Responsive Web Design

Where's the fold?

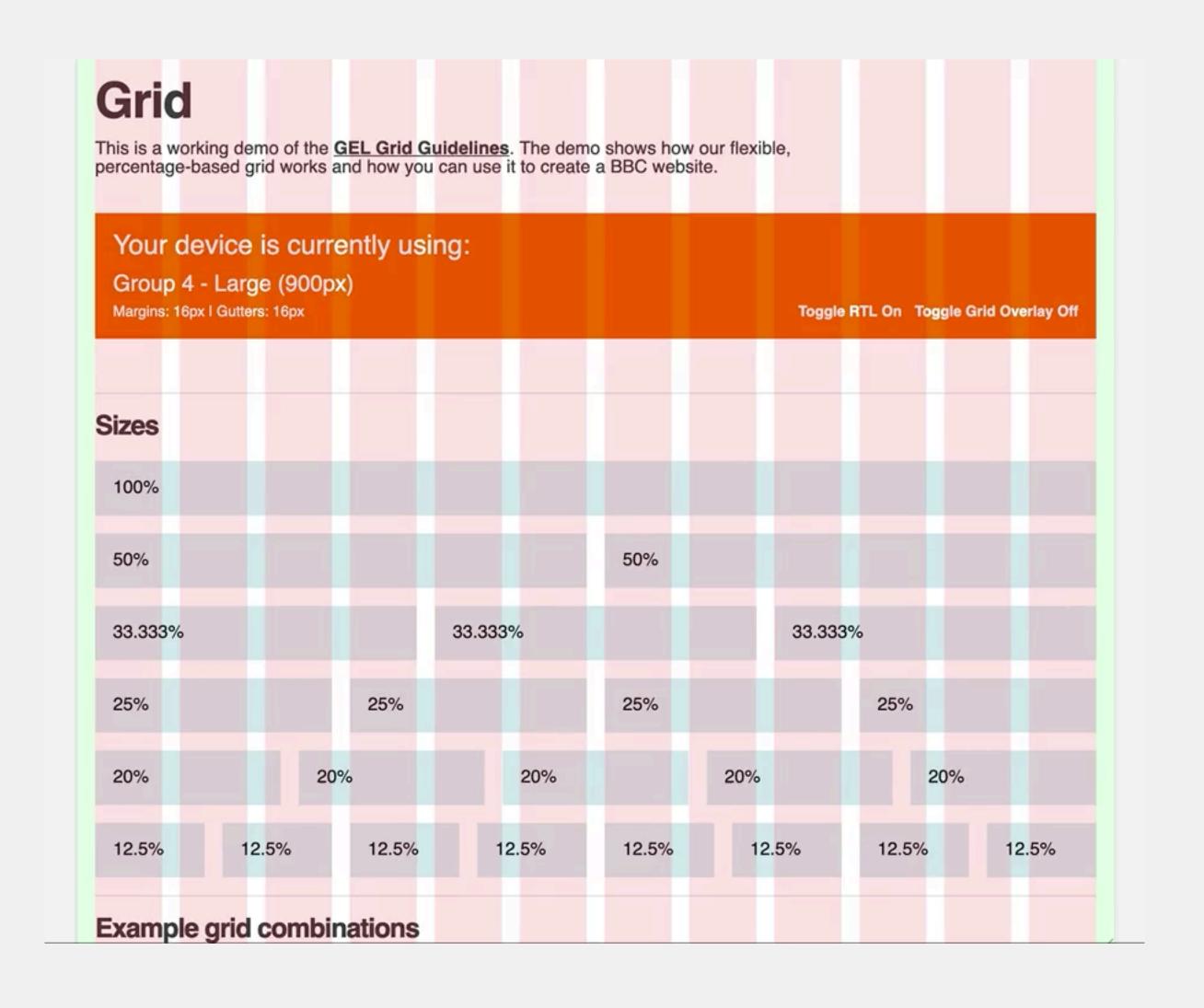
We can't easily size things so that they don't get cut off at the fold



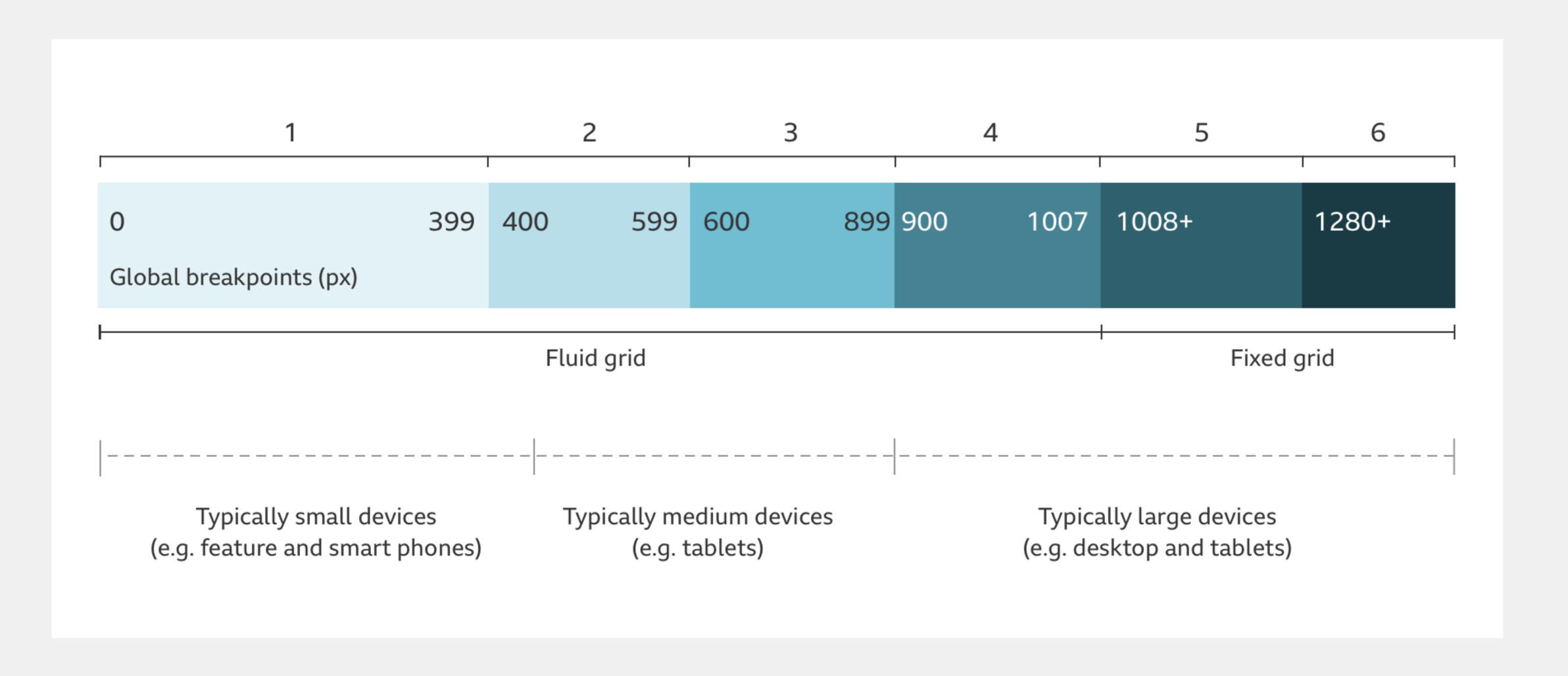
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Can't mix fluid and fixed

All grid columns must be either fixed or percentage widths



Stick to the breakpoints



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Source: **BBC**



It's all about design systems

minmax(n, m)

fr units

Subgrids

Flex

@supports

aspect-ratio

New in CSS

Multi-column

min(*n*, *m*)
max(*n*, *m*)

Grids

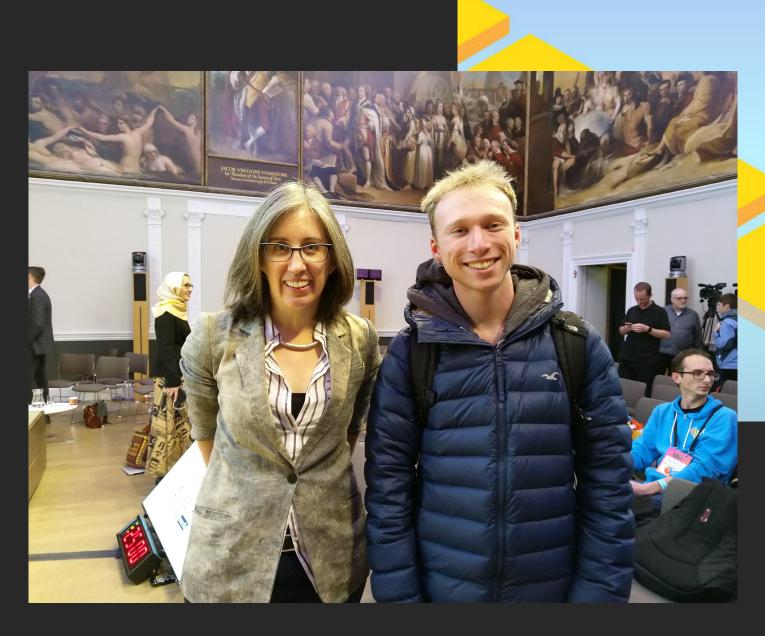
Shapes

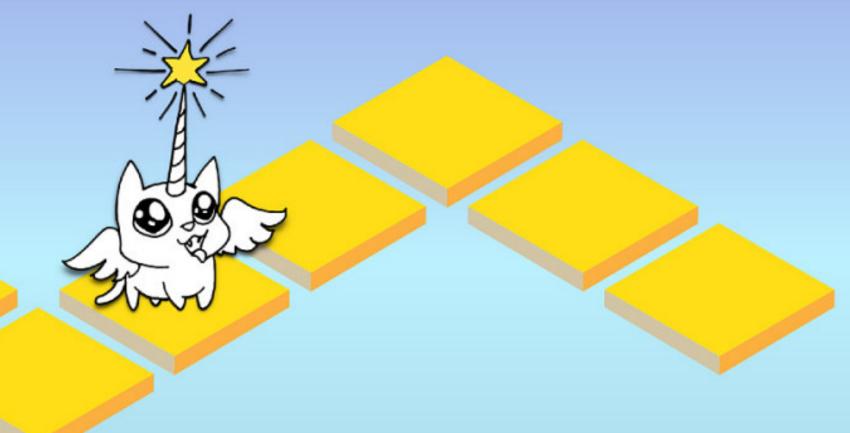
min-content max-content

clamp(min, value, max)

Regions

Everything You Know About Web Design Just Changed



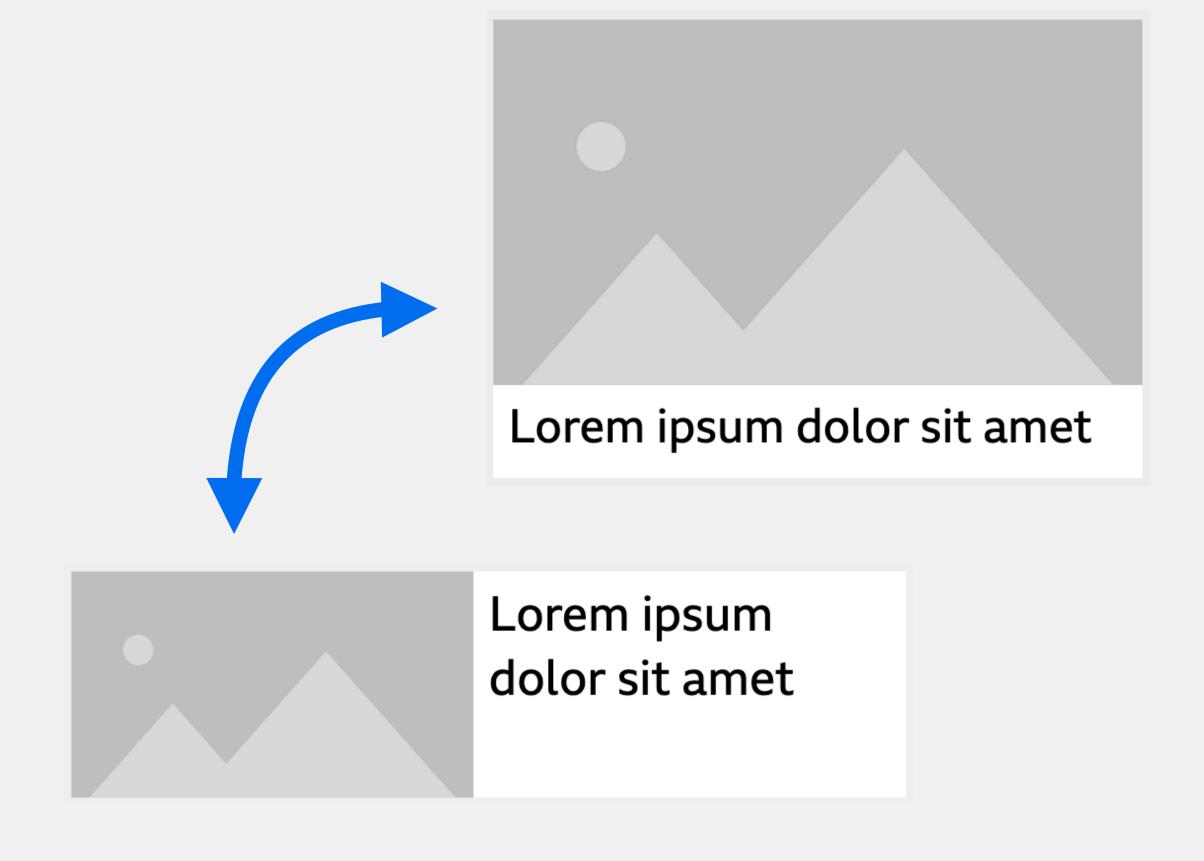


Jen Simmons View Source London October 2018



Intrinsic?

- The content knows how to fill its space
- It's about setting constraints instead of setting breakpoints
- Capable of mixing fixed and fluid columns in the same layout
- No need for Media Queries (usually)!



Sidebar Hello World Lorem ipsum dolor sit amet, Lorem ipsum dolor Lorem ipsum dolor consectetur adipiscing elit, sed do sit amet sit amet eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Lorem ipsum dolor Lorem ipsum dolor sit amet sit amet Lorem ipsum dolor Lorem ipsum dolor sit amet sit amet

This changes everything

And as designers and developers, we need to understand what we can do.



RUDIMENTS

Boxes
Composition
Units

Global and local styling

Modular scale

Axioms

LAYOUTS

Picture indexThe Stack

The Box

The Center

The Cluster

The Sidebar

The Switcher
The Cover

The Grid

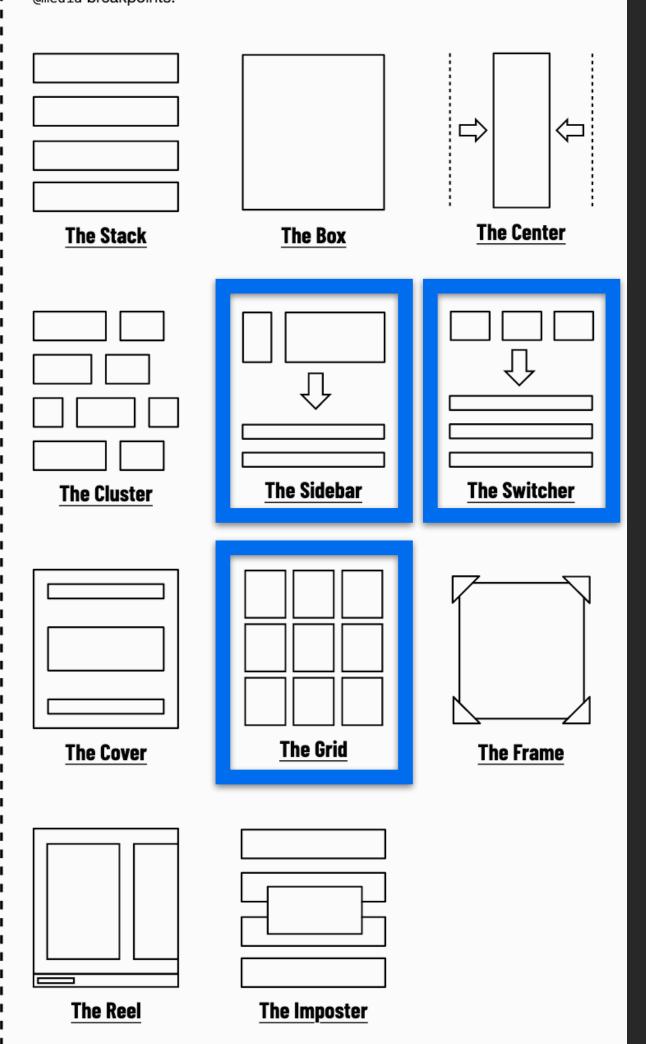
The Frame

The Reel

The Imposter

Layouts

Each of the following *layout primitives* is documented with a code generator, and includes a custom element implementation. You can use them together, in <u>composition</u>, to create robust and responsive layouts without the need for <code>@media</code> breakpoints.



Every Layout is created by

Heydon Pickering & Andy Bell

Privacy Policy - Terms and conditions

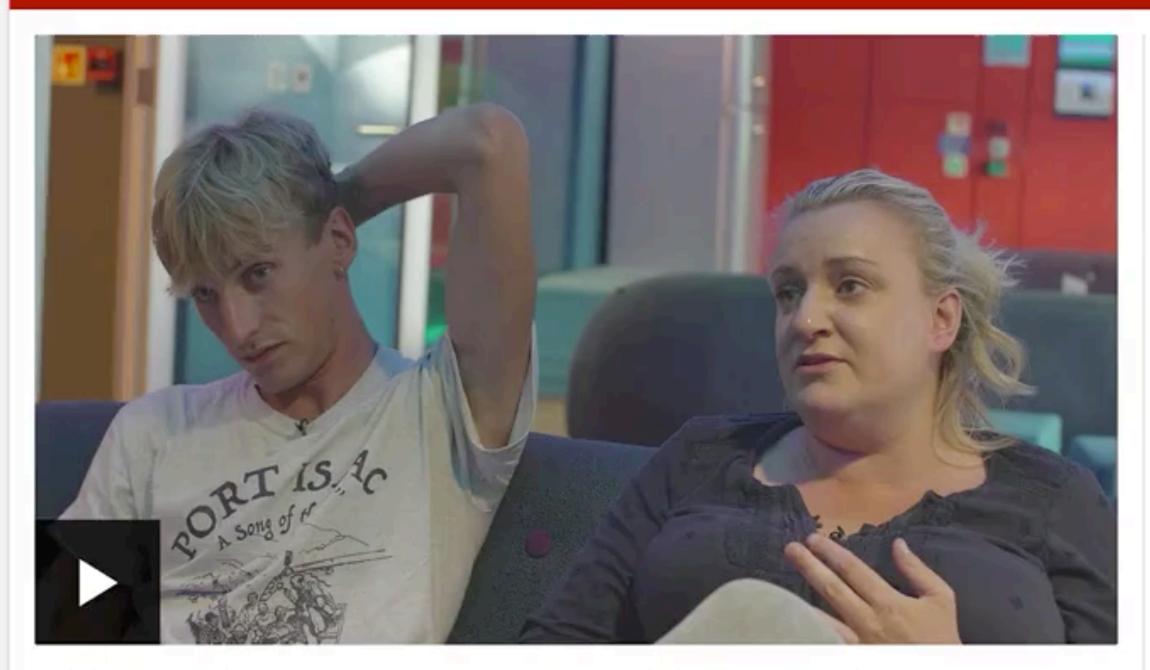
Intrinsic Web Design + Systems = Systems

So how are we using it at the BBC?

We're not

*but we're thinking about it

NEWS



This Country: 'Everyone knows a Kerry and Kurtan'

Daisy May and Charlie Cooper are the sibling duo behind the award-winning BBC Three comedy, This Country.

They sat down with Radio 1 Newsbeat to chat about what to expect from This Country's third series, which will air early next year. A new book, published earlier this month, will keep fans going until then.

Aside from dropping an accidental spoiler, they also opened up about what it was really like growing up in a small village, why the show has attracted such a devoted following, and why Daisy would rather wear bin bags to the Baftas.

Interview by Annabel Rackham and filming by Imran Rahman-Jones

Top Videos



Billie Eilish on Bond and online bullying

4h ago | BBC News



This Country: 'Everyone knows a Kerry and Kurtan'

20 October 2019 | BBC News



Love Island tribute to Caroline Flack

17 Feb 2020 | BBC News



Caroline Flack: Laura Whitmore's emotional tribute

3 days ago | BBC News

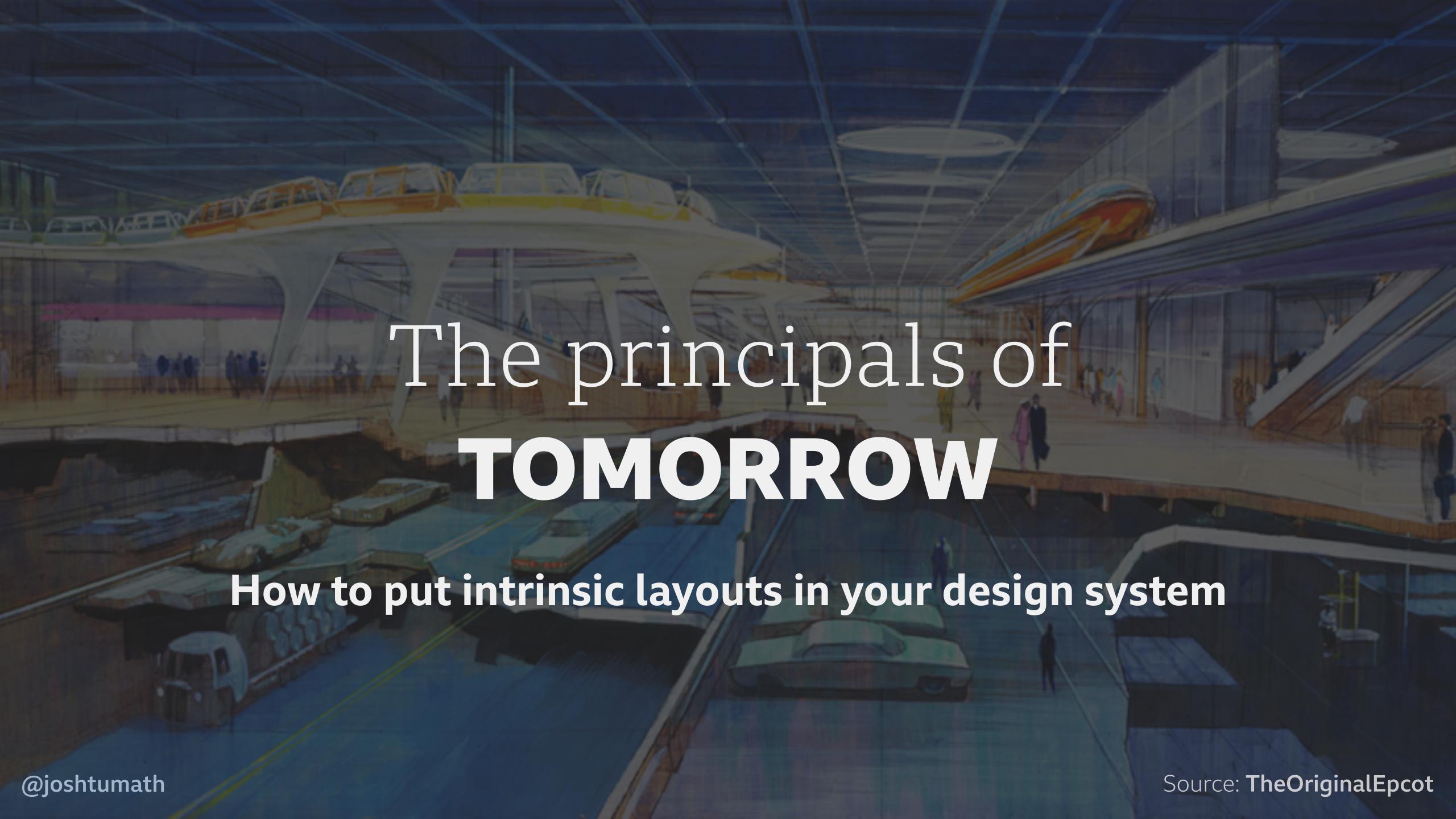


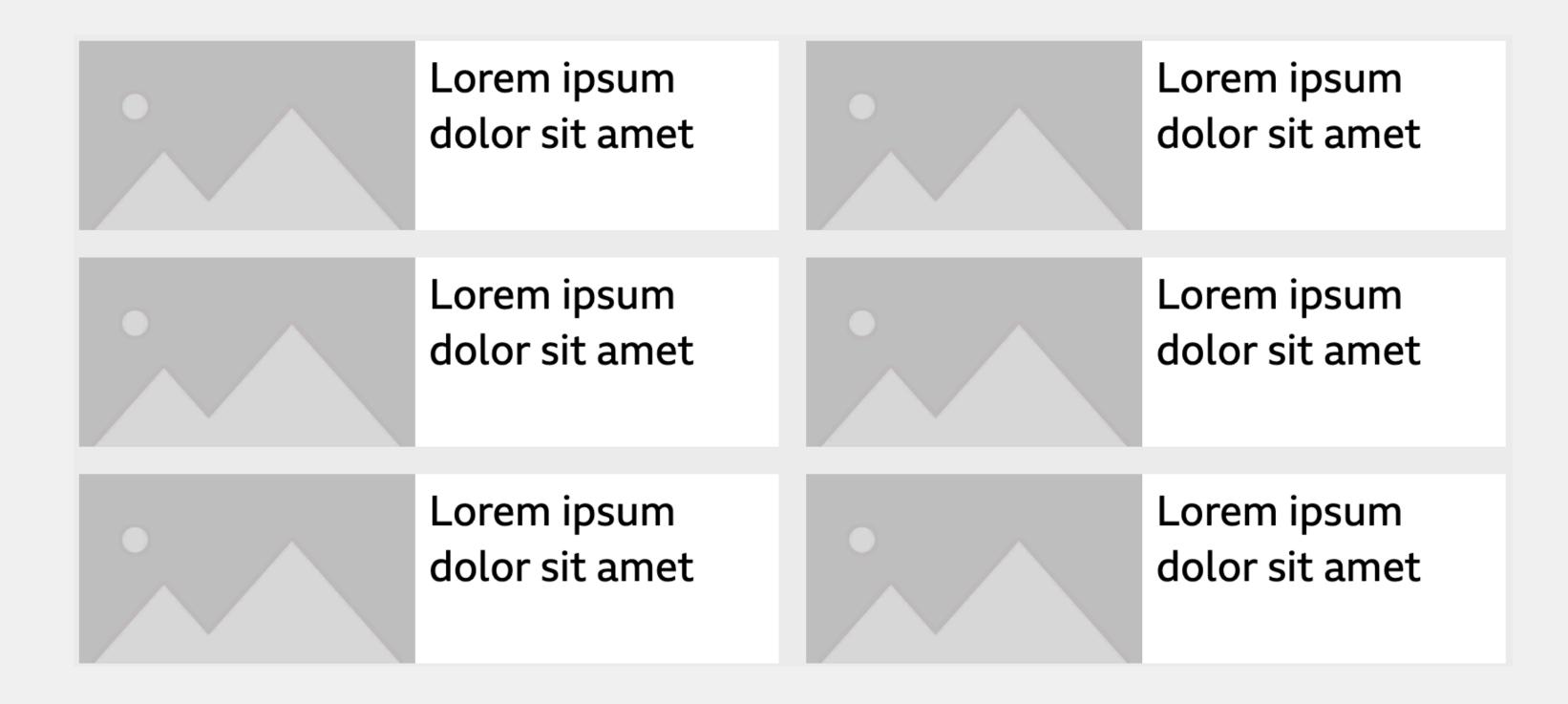
Photography exhibit asks people to challenge victim blaming

14 Feb 2020 | BBC News



Winchester friends set up wheelchair dance class





```
.grid {
   display: grid;
   gap: 1rem;
   grid-template-columns: repeat(auto-fit, minmax(500px, 1fr));
}
```

Avoid Media Queries

Split layouts from components

You can avoid re-implementing layouts in each component

- GEL
- Components
- Foundations
 - Breakpoints
 - Spacing
 - Typography
- Layouts
 - ▶ **⊞** Grid
 - ▶ Stack
 - → Wrap

```
.card {
    margin: 1rem 0;
}
```

Don't set margins on the edges of components

Let the parent components do that instead

Lorem ipsum dolor sit amet

```
.stack > * + * {
    margin-top: 1rem;
}
.grid {
    display: grid;
    gap: 1rem;
}
```



Lorem ipsum dolor sit amet

Encapsulate the styles of each component

Don't let parent components change the style of a component

```
<Card>
     <div class="card-image">
          <Image />
          </div>
      <div class="card-content">
            Lorem ipsum
      <div>
      </Card>
```

```
.Card .Image {
   width: 50%;
}
```

Be careful mixing intrinsic layouts with media queries

So what do we need to do?

- Spread the word to everyone you know!
- Play around with CSS Grid and Flexbox
- Subscribe to Rachel Andrew, Jen Simmons and Adam Argyle
- See what you can do today

